

=> s mutilin  
L21 47 MUTILIN

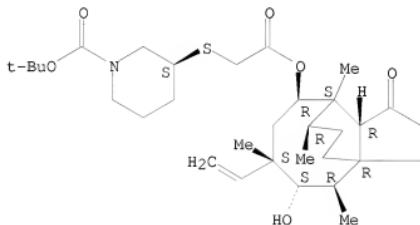
=> d

L21 ANSWER 1 OF 47 REGISTRY COPYRIGHT 2008 ACS on STN  
RN 1018331-67-3 REGISTRY  
ED Entered STN: 30 Apr 2008  
CN INDEX NAME NOT YET ASSIGNED  
OTHER NAMES:  
CN 14-O-[[[(S)-N-Boc-piperidin-3-yl]thio]acetyl]mutilin  
methanesulfonate  
CN 22-[(S)-N-Boc-piperidin-3-yl]thio]pleuromutilin methanesulfonate  
FS STEREOSEARCH  
MF C32 H51 N O6 S . C H4 O3 S  
SR CA  
LC STN Files: CA, CAPLUS, CASREACT

CM 1

CRN 1018331-66-2  
CMF C32 H51 N O6 S

Absolute stereochemistry.



CM 2

CRN 75-75-2  
CMF C H4 O3 S



1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> fil caplus			
COST IN U.S. DOLLARS	SINCE FILE	TOTAL	
FULL ESTIMATED COST	ENTRY	SESSION	
	8.07	1359.62	
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL	
CA SUBSCRIBER PRICE	ENTRY	SESSION	
	0.00	-78.40	

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 FILE LAST UPDATED: 22 May 2008 (20080522/ED)

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=> s 12  
 L22 22 L2

=> d 1-22 bib abs hitstr

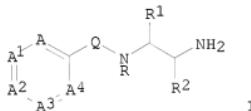
L22 ANSWER 1 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN  
 AN 2007:63581 CAPLUS <>LOGINID::20080523>>  
 DN 146:156259  
 TI MAO-B inhibitors useful for treating obesity  
 IN Mcelroy, John F.; Chorvat, Robert J.; Rajagopalan, Parthasarathi  
 PA Jenrin Discovery, USA  
 SO PCT Int. Appl., 92pp.  
 CODEN: PIXXD2

DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2007008963	A1	20070118	WO 2006-US27019		20060712

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, ID, IL, IN, IS, JE, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW  
 RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

US 20070015734 A1 20070118 US 2006-456912 20060712  
 PRAI US 2005-698867P P 20050713  
 OS MARPAT 146:156259  
 GI



AB The invention provides novel compds. of formula I (where A, A1, A2, A3, and A4, are independently selected from CH, substituted C, N, and N+-O-, provided that from 0-1 is N+-O-; R is independently selected from H and C1-6 alkyl; R1 is selected from H and C1-6 alkyl; R2 is selected from H and C1-6-alkyl; Q is selected from C=O and SO2) that are monoamine oxidase-B (MAO-B) inhibitors, which can be useful in treating obesity, diabetes, and/or cardiometabolic disorders (e.g., hypertension, dyslipidemias, high blood pressure, and insulin resistance).

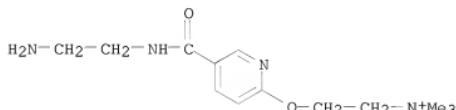
IT 919773-61-8

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(MAO-B inhibitors useful for treating obesity and other disorders)

RN 919773-61-8 CAPLUS

CN Ethanaminium, 2-[[5-[(2-aminoethyl)amino]carbonyl]-2-pyridinyl]oxy]-N,N,N-trimethyl-, chloride (1:1) (CA INDEX NAME)

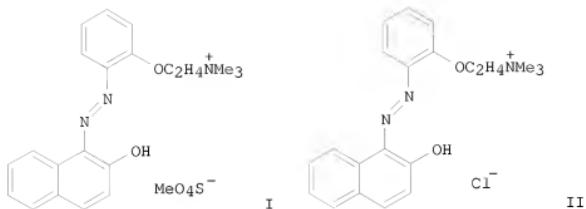


● Cl-

RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 2 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN  
AN 2005:1004830 CAPLUS <>LOGINID::20080523>>  
DN 143:287907  
TI Cationic naphthyl diazo dyes and colorants for keratin fibers containing  
said compounds.  
IN Goettel, Otto; Hayoz, Andre; Braun, Hans-Juergen  
PA Wella Aktiengesellschaft, Germany  
SO PCT Int. Appl., 48 pp.  
CODEN: PIXXD2  
DT Patent  
LA German  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005085362	A1	20050915	WO 2004-EP14189	20041213
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	DE 102004010999	A1	20050922	DE 2004-102004010999	20040306
	EP 1740657	A1	20070110	EP 2004-803818	20041213
	EP 1740657	B1	20070912		
	R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR				
	BR 2004018613	A	20070502	BR 2004-18613	20041213
	AT 373051	T	20070915	AT 2004-803818	20041213
	JP 2007527457	T	20070927	JP 2007-501128	20041213
	ES 2294565	T3	20080401	ES 2004-803818	20041213
PRAI	DE 2004-102004010999	A	20040306		
	WO 2004-EP14189	W	20041213		
OS	MARPAT	143:287907			
GI					



AB Cationic naphthyldiazo dyes such as, an example I or II useful for non-oxidative dyeing keratin fibers, especially hair are prepared by catalytic hydriding of nitrocompounds followed by a standard diazotization in water and coupling with 1- or 2-naphthols. Thus, I prepared by reduction of 34 g N,N,N-trimethyl-2-(2-nitrophenoxy)ethanaminium methylsulfate with H<sub>2</sub> (pressure 9 bar) in the presence of Pd/C catalyst followed by a standard diazotization in water with NaNO<sub>2</sub> and sulfamic acid and coupling with a solution of 2-naphthol in i-PrOH was used in a composition for dyeing hair containing

4.0 g of decyl glucoside, 5.0 g of ethanol and 0.0025 mol of this dye in 100 g of water at pH 7.

IT 864465-41-8P

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)

(diazoo component precursor, nitro-compound; cationic naphthyl diazo dyes useful for non-oxidative dyeing keratin fibers prepared by catalytic hydriding of nitrocompounds followed by a standard diazotization in water and coupling)

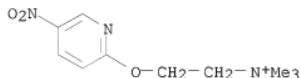
RN 864465-41-8 CAPLUS

CN Ethanaminium, N,N,N-trimethyl-2-[(5-nitro-2-pyridinyl)oxy]-, methyl sulfate (1:1) (CA INDEX NAME)

CM 1

CRN 864465-40-7

CMF C10 H16 N3 O3



CM 2

CRN 21228-90-0

CMF C H3 O4 S

Me—O—SO<sub>3</sub><sup>—</sup>

IT 864465-43-0P  
 RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)  
 (diazo component; cationic naphthyl diazo dyes useful for non-oxidative dyeing keratin fibers prepared by catalytic hydriding of nitrocompounds followed by a standard diazotization in water and coupling)

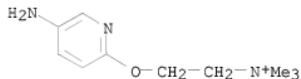
RN 864465-43-0 CAPLUS

CN Ethanaminium, 2-[(5-amino-2-pyridinyl)oxy]-N,N,N-trimethyl-, methyl sulfate (1:1) (CA INDEX NAME)

CM 1

CRN 864465-42-9

CMF C10 H18 N3 O



CM 2

CRN 21228-90-0

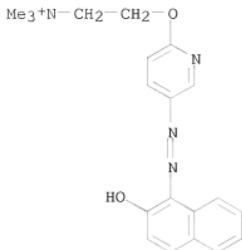
CMF C H3 O4 S

Me—O—SO<sub>3</sub><sup>—</sup>

IT 864465-26-9P  
 RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (orange dye; cationic naphthyl diazo dyes useful for non-oxidative dyeing keratin fibers prepared by catalytic hydriding of nitrocompounds followed by a standard diazotization in water and coupling)

RN 864465-26-9 CAPLUS

CN Ethanaminium, 2-[[5-[2-(2-hydroxy-1-naphthalenyl)diazenyl]-2-pyridinyl]oxy]-N,N,N-trimethyl-, chloride (1:1) (CA INDEX NAME)

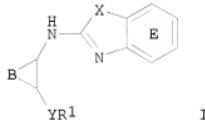
● Cl<sup>-</sup>

RE.CNT 4        THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

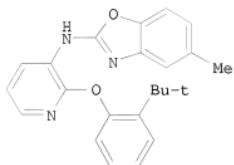
L22 ANSWER 3 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN  
 AN 2005:696902 CAPLUS <>LOGINID:20080523>>  
 DN 143:194003  
 TI Preparation of aminobenzazoles and analogs as P2Y<sub>1</sub> receptor inhibitors for  
 treating thromboembolic disorders  
 IN Herpin, Timothy F.; Morton, George C.; Rehfuss, Robert P.; Lawrence, R.  
 Michael; Poss, Michael A.; Roberge, Jacques Y.; Gungor, Timur  
 PA Bristol-Myers Squibb Company, USA  
 SO PCT Int. Appl., 256 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005070920	A1	20050804	WO 2005-US1705	20050120
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, T2, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US	20050203146	A1	20050915	US 2005-38862	20050119
EP	1706398	A1	20061004	EP 2005-711663	20050120
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK				

HR, IS, YU  
 JP 2007518809 T 20070712 JP 2006-551237 20050120  
 NO 2006003191 A 20061016 NO 2006-3191 20060710  
 PRAI US 2004-537869P P 20040121  
 US 2004-638167P P 20041222  
 WO 2005-US1705 W 20050120  
 OS MARPAT 143:194003  
 GI



I



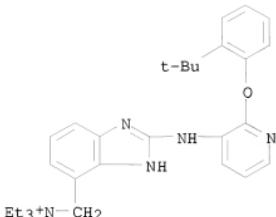
II

AB The invention is related to novel aminobenzazoles I and their analogs, and their stereoisomers, pharmaceutically acceptable salts and solvates [wherein B = (un)substituted Ph, heteroaryl; E = (un)substituted Ph, pyridinyl, pyrimidinyl, pyrazinyl, pyridazinyl; X = NH and derivs., O, S; Y = O, S, SO, SO<sub>2</sub>; R<sub>1</sub> = (un)substituted carbocyclyl, heterocyclyl] as selective inhibitors of the human P2Y<sub>1</sub> receptor. For example, II was prepared by reacting 2-[(2-tert-butylphenyl)oxy]-3-isothiocyanatopyridine (preparation given) with 2-amino-p-cresol, followed by cyclization. Preferred I have Ki's  $\leq 1 \mu\text{M}$  in a P2Y<sub>1</sub> binding assay. I, and their pharmaceutical compns., are useful for treating diseases responsive to modulation of P2Y<sub>1</sub> receptor activity, especially thromboembolic disorders.

IT 861672-42-6P, N-[[2-[(2-tert-Butylphenyl)oxy]pyridin-3-yl]amino]-3H-benzo[d]imidazol-4-yl]methyl-N,N-diethylethanaminium chloride  
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (drug candidate; preparation of aminobenzazoles and analogs as P2Y<sub>1</sub> receptor inhibitors for treating thromboembolic disorders)

RN 861672-42-6 CAPLUS

CN 1H-Benzimidazole-7-methanaminium, 2-[[2-[(1,1-dimethylethyl)phenoxy]-3-pyridinyl]amino]-N,N,N-triethyl-, chloride (1:1) (CA INDEX NAME)



● Cl-

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

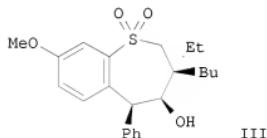
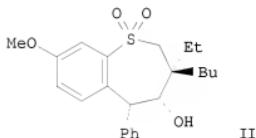
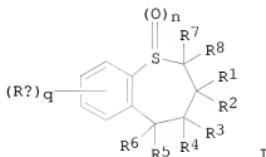
L22 ANSWER 4 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN  
AN 2004:60147 CAPLUS <>LOGINID::20080523>>  
DN 140:111291  
TI Preparation of substituted 5-aryl-benzothiophenes as ileal bile acid transport and taurocholate uptake inhibitors  
IN Lee, Len F.; Banerjee, Shyamal C.; Huang, Horng Chih; Li, Jinglin J.; Miller, Raymond E.; Reitz, David B.; Tremont, Samuel J.  
PA G.D. Searle and Co., USA  
SO U.S. Pat. Appl. Publ., 235 pp., Cont.-in-part of U.S. Ser. No. 831,284.  
CODEN: USXXCO

DT Patent  
LA English

FAN.CNT 9

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 20040014803	A1	20040122	US 2002-68297	20020208
	US 6784201	B2	20040831		
	CA 2506703	A1	19970918	CA 1997-2506703	19970311
	EP 1440972	A1	20040728	EP 2004-10088	19970311
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI				
	AU 761249	B2	20030529	AU 2000-53394	20000816
	US 20020013476	A1	20020131	US 2001-828968	20010409
	US 6387924	B2	20020514		
	US 20030171426	A1	20030911	US 2002-76091	20020215
	US 6642268	B2	20031104		
	AU 2003201377	A1	20030612	AU 2003-201377	20030318
	US 20040204478	A1	20041014	US 2004-830125	20040423
PRAI	US 1994-305526	B2	19940913		
	US 1995-517051	B1	19950821		
	US 1996-13119P	P	19960311		
	US 1997-816065	A2	19970311		
	US 1997-831284	A2	19970331		

US 2001-828968	A3	20010409
AU 1997-23266	A3	19970311
CA 1997-2248586	A3	19970311
EP 1997-915976	A3	19970311
US 1997-40660P	P	19970311
US 1997-68170P	P	19971219
US 1998-109551	A2	19980702
US 1999-275463	A1	19990324
US 1999-443403	A1	19991119
AU 2000-53394	A3	20000816
US 2000-676466	A3	20000929
US 2002-68297	A3	20020208
OS MARPAT 140:111291		
GI		



AB The title compds. (I) [wherein q = 1-4; n = 0-2; R1, R2 = H, (un)substituted (halo)alkyl, alkenyl, alkynyl, alkylaryl, arylalkyl, alkoxy(alkyl), dialkylamino, alkylthio, (polyalkyl)aryl, or cycloalkyl; or R1 and R2 taken together with the atoms to which they are attached = cycloalkyl; R3, R4 = H, alkyl, alkenyl, alkynyl, acyloxy, aryl, heterocyclyl, OR9, NR9R10, SR9, S(OR9, SO2R9, or SO3R9; R9, R10 = H, (cyclo)alkyl, alkenyl, alkynyl, aryl(alkyl), acyl, heterocyclyl, or ammoniumalkyl; or R3 and R4 together = :O, :NOR11, :S, :NNR11R12, :NR9, or :CR11R12; R11, R12 = H, (cyclo)alkyl, alkenyl, alkynyl, aryl(alkyl), heterocyclyl, carboxylalkyl, carboalkoxyalkyl, cyanoalkyl, OR9, NR9R10, SR9, S(OR9, SO2R9, SO3R9, CO2R9, CN, halo, oxo, or CONR9R10; R5, R6 = H, alkyl, aryl, etc.; R7, R8 = H, alkyl; Rx = H, (un)substituted (cyclo)alkyl, alkenyl, alkynyl, polyalkyl, acyloxy, aryl(alkyl), halo(alkyl), (quaternary) heterocyclyl, (quaternary) heteroaryl, polyether, alkoxy, amino, alkylthio, NO2, carboxy, carbamido, etc.] were prepared for the prophylaxis and treatment of hyperlipidemic conditions, such as those associated with atherosclerosis or hypercholesterolemia. Thus, KOBu-t was added to a solution of 2-((2-benzyl-5-

methoxyphenylsulfonyl)methyl)-2-ethylhexanal (preparation given) and dry THF cooled to -1.6°C to give, after workup, II and III (96% combined yield). The isomers were separated upon recrystn. II inhibited IBAT-mediated uptake of [<sup>14</sup>C]-taurocholate in H14 cells with an IC<sub>50</sub> of 0.1  $\mu$ M and reduced serum cholesterol from 143 mg (7%) to 126 mg (2%) compared to control in cholesterol-fed hamsters in a 14-day test. In vitro taurocholate uptake assay data are included for nearly 600 compds. of the invention.

IT 289038-40-0P

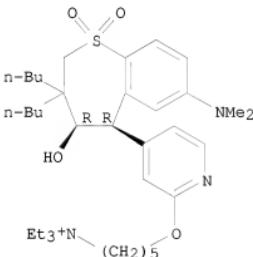
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(hypolipemic agent; preparation of substituted 5-aryl-benzothiepines by cyclization of 2-((2-benzyl- and 2-benzoylphenylthio)methyl)alkanals as ideal bile acid transport and taurocholate uptake inhibitors)

RN 289038-40-0 CAPLUS

CN 1-Pentanaminium, 5-[[4-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]-2-pyridinyl]oxy]-N,N,N-triethyl-, iodide, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● I<sup>-</sup>

RE.CNT 231 THERE ARE 231 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 5 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2003:692092 CAPLUS &lt;&lt;LOGINID:20080523&gt;&gt;

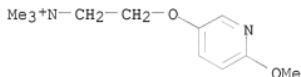
DN 139:270263

TI Quaternary ammonium 3-(aminoethoxy)pyridines as antinociceptive agents  
AU Simsek, Rahime; Chang-Fong, Jean; Lee, Mase; Dukat, Malgorzata; Damaj, M.  
Imad; Martin, Billy R.; Glennon, Richard A.

CS Department of Medicinal Chemistry, School of Pharmacy, Virginia  
Commonwealth University, Richmond, VA, 23298, USA

SO Bioorganic &amp; Medicinal Chemistry Letters (2003), 13(17), 2917-2920

CODEN: BMCLE8; ISSN: 0960-894X  
 PB Elsevier Science B.V.  
 DT Journal  
 LA English  
 AB Quaternization via N-methylation of the terminal amines of a series of 3-(dialkylaminoethoxy)pyridines resulted in analogs that displayed up to 50-60-fold enhanced affinity for nicotinic acetylcholinergic (nACh) receptors. Several of these compds. displayed antinociceptive properties in mice using the tail-flick assay and serve as possible leads for the development of novel analgesic agents.  
 IT 607390-42-1  
 RL: PAC (Pharmacological activity); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (quaternary ammonium 3-(aminoethoxy)pyridines as nicotinic agonists and antinociceptive agents)  
 RN 607390-42-1 CAPLUS  
 CN Ethanaminium, 2-[(6-methoxy-3-pyridinyl)oxy]-N,N,N-trimethyl-, chloride (1:1) (CA INDEX NAME)



● Cl-

RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

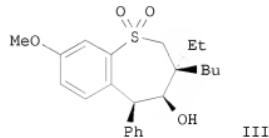
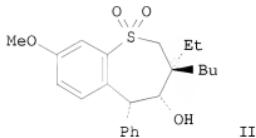
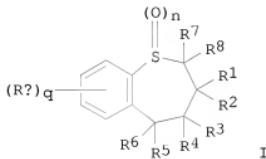
L22 ANSWER 6 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN  
 AN 2000:590035 CAPLUS <>LOGINID:>20080523>>  
 DN 133:193089  
 TI Preparation of substituted 5-aryl-benzothiepines as ileal bile acid transport and taurocholate uptake inhibitors  
 IN Lee, Len F.; Banerjee, Shyamal C.; Huang, Horng-chih; Li, Jinglin J.; Miller, Raymond E.; Reitz, David B.; Tremont, Samuel J.  
 PA G.D. Searle and Co., USA  
 SO U.S., 191 pp., Cont.-in-part of U. S. Ser. No. 109,551.  
 CODEN: USXXAM  
 DT Patent  
 LA English  
 FAN.CNT 9

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6107494	A	20000822	US 1999-275463	19990324
CA 2506703	A1	19970918	CA 1997-2506703	19970311
EP 1440972	A1	20040728	EP 2004-10088	19970311
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI				
US 5994391	A	19991130	US 1998-109551	19980702
EP 1331225	A1	20030730	EP 2003-5459	19981216

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CA 2336315	A1 20000113	CA 1999-2336315	19990629
WO 2000001687	A1 20000113	WO 1999-US12828	19990629
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,			
DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE,			
KG, KP, KR, KZ, LC, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW,			
MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR,			
TT, UA, UG, US, UZ, VN, YU, ZA, ZW			
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,			
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CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
AU 9948202	A 20000124	AU 1999-48202	19990629
AU 766957	B2 20031030		
EP 1091953	A1 20010418	EP 1999-931769	19990629
EP 1091953	B1 20031210		
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TR 200100824	T2 20010723	TR 2001-824	19990629
BR 9911737	A 20011211	BR 1999-11737	19990629
HU 2001002840	A2 20020128	HU 2001-2840	19990629
EE 200100002	A 20020617	EE 2001-2	19990629
JP 2002519418	T 20020702	JP 2000-558091	19990629
NZ 509621	A 20030829	NZ 1999-509621	19990629
AT 256122	T 20031215	AT 1999-931769	19990629
PT 1091953	T 20040430	PT 1999-931769	19990629
ES 2213373	T3 20040816	ES 1999-931769	19990629
EP 1466911	A2 20041013	EP 2003-26649	19990629
EP 1466911	A3 20050907		
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SG 108309	A1 20050128	SG 2002-7701	19990629
US 6262277	B1 20010717	US 1999-443403	19991119
TW 229670	B 20050321	TW 1999-88111293	20000107
AU 761249	B2 20030529	AU 2000-53394	20000816
NO 2001000016	A 20010302	NO 2001-16	20010102
ZA 2001000028	A 20010725	ZA 2001-28	20010102
HR 2001000004	A1 20011231	HR 2001-4	20010102
MX 2001PA00208	A 20010521	MX 2001-PA208	20010108
BG 105206	A 20010928	BG 2001-105206	20010131
US 20020013476	A1 20020131	US 2001-828968	20010409
US 6387924	B2 20020514		
US 20020188119	A1 20021212	US 2002-72600	20020211
US 6875877	B2 20050405		
US 20030171426	A1 20030911	US 2002-76091	20020215
US 6642268	B2 20031104		
AU 2003201377	A1 20030612	AU 2003-201377	20030318
AU 2004200346	A1 20040226	AU 2004-200346	20040130
JP 2004203891	A 20040722	JP 2004-50473	20040225
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JP 2004359694	A 20041224	JP 2004-227034	20040803
PRAI US 1994-305526	B2 19940913		
US 1995-517051	B1 19950821		
US 1996-13119P	P 19960311		
US 1997-816065	B2 19970311		
US 1997-831284	B2 19970331		
US 1997-68170P	P 19971219		

US 1998-109551	A2	19980702
AU 1997-23266	A3	19970311
CA 1997-2248586	A3	19970311
EP 1997-915976	A3	19970311
US 1997-40660P	P	19970311
EP 1998-962044	A3	19981216
US 1999-275463	A1	19990324
EP 1999-931769	A3	19990629
JP 2000-558091	A3	19990629
WO 1999-US12828	W	19990629
US 1999-443403	A1	19991119
AU 2000-53394	A3	20000816
US 2000-676466	A3	20000929
US 2000-581897	A3	20001002
US 2001-828968	A3	20010409
US 2002-68297	A3	20020208

OS MARPAT 133:193089  
GI



AB The title compds. (I) [wherein q = 1-4; n = 2; R1 and R2 = independently H or (un)substituted (halo)alkyl, alkenyl, alkynyl, alkylaryl, arylalkyl, alkoxy(alkyl), dialkylamino, alkylthio, (polyalkyl)aryl, or cycloalkyl; or R1 and R2 taken together with the atoms to which they are attached = cycloalkyl; R3 and R4 = independently H, alkyl, alkenyl, alkynyl, acyloxy, aryl, heterocyclyl, OR9, NR9R10, SR9, S(O)R9, SO2R9, or SO3R9; R9 and R10 = independently H, (cyclo)alkyl, alkenyl, alkynyl, aryl(alkyl), acyl, heterocyclyl, or ammoniumalkyl; or R3 and R4 together = :O, :NOR11, :S, :NNR11R12, :NR9, or :CR11R12; R11 and R12 = independently H, (cyclo)alkyl, alkenyl, aryl(alkyl), heterocyclyl, carboxylalkyl, carboalkoxyalkyl, cyanoalkyl, OR9, NR9R10, SR9, S(O)R9, SO2R9, SO3R9, CO2R9, CN, halo, oxo, or CONR9R10; R5 = substituted aryl; R6 = H; R7 and

R8 = independently H or alkyl; Rx = independently H or (un)substituted (cyclo)alkyl, alkenyl, alkynyl, polyalkyl, acyloxy, aryl(alkyl), halo(alkyl), (quaternary) heterocyclyl, (quaternary) heteroaryl, polyether, alkoxy, amino, alkylthio, NO<sub>2</sub>, carboxy, carbamido, etc.] where prepared for the prophylaxis and treatment of hyperlipidemic conditions, such as those associated with atherosclerosis or hypercholesterolemia. Thus, KOBu-t was added to a solution of 2-((2-benzyl-5-methoxyphenylsulfonyl)methyl)-2-ethylhexanal (preparation given) and dry THF cooled to -1.6°C to give, after workup, II and III (96% combined yield). The isomers were separated upon recrystn. II inhibited IBAT-mediated uptake of [<sup>14</sup>C]-taurocholate in H14 cells with an IC<sub>50</sub> of 0.1 μM and reduced serum cholesterol from 143 mg (7%) to 126 mg (2%) compared to control in cholesterol-fed hamsters in a 14-day test. In vitro taurocholate uptake assay data are included for nearly 600 compds. of the invention.

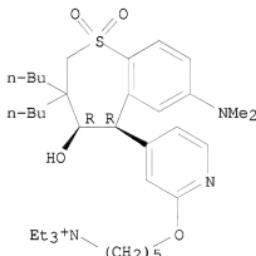
IT 289038-40-0P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (hypolipemic agent; preparation of substituted 5-aryl-benzothiepines by cyclization of 2-((2-benzyl- and 2-benzoylphenylthio)methyl)alkanals as ileal bile acid transport and taurocholate uptake inhibitors)

RN 289038-40-0 CAPLUS

CN 1-Pentanaminium, 5-[(4-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]-2-pyridinyl]oxy)-N,N,N-triethyl-, iodide, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



● I-

RE.CNT 56 THERE ARE 56 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 7 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN  
AN 1999:206866 CAPLUS <<LOGINID::20080523>>

DN 130:291600  
 TI Amides, bone formation promoters containing them, and their use as antiosteoporotic agents

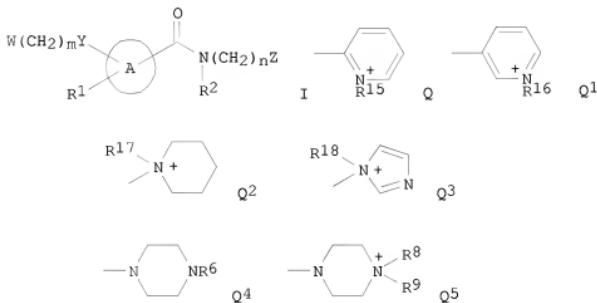
IN Shibata, Saizo; Omori, Fujimi; Nakagawa, Takashi  
 PA Japan Tobacco, Inc., Japan  
 SO Jpn. Kokai Tokkyo Koho, 45 pp.  
 CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 11080107	A	19990326	JP 1997-251360	19970901
PRAI JP 1997-251360				
OS MARPAT 130:291600				
GI				



AB Bone formation promoters contain amides I [W = H, amino, NH<sub>2</sub>OR3 (R3 = lower alkyl), lower alkoxy carbonyl, cycloalkyl, naphthyl, morpholino, thiienyl, phthalimido, benzoyl, benzyloxy, C<sub>6</sub>H<sub>4</sub>R4 (R4 = H, halo, lower alkyl, lower alkoxy); Y = O, NHCO<sub>2</sub>, NHCO, CONH, CO, CO<sub>2</sub>, OCO, CO(CH:CH)<sub>u</sub> (u = 1, 2), direct bond; ring A = benzene, naphthalene, cyclohexane, biphenyl, di-Ph ether, pyridine, isoxazole, thiophene]; R1 = H, halo, NO<sub>2</sub>, lower alkyl, lower alkoxy; R2 = H, lower alkyl; Z = halo, OH, lower alkyl, lower alkoxy, lower alkoxy carbonyl, carboxy, NR5R6 [R5, R6 = H, (hydroxy)alkyl, aryl, lower alkyl carbonyl], N+R7R8R9 [R7, R8 = lower alkyl, aralkyl; R9 = lower alkyl, (halo)aralkyl, aryl carbonyl alkyl], SR10 (R10 = lower alkyl, aralkyl), S02R11 (R11 = lower alkyl, aralkyl), S01R12 (R12 = lower alkyl, aralkyl), S+R13R14 (R13, R14 = lower alkyl), morpholino, pyridyl, pyridinio, Q (R15 = lower alkyl), Q1 (R16 = lower alkyl), Q2 (R17 = lower alkyl), Q3 (R18 = lower alkyl); R2 and R5 may be bonded to each other to form Q4 (R6 = any group given above); R2 and R7

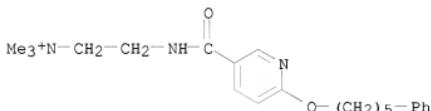
may be bonded to each other to form Q5 (R8, R9 = any group given above), m = 0-20; n = 0-4] or their pharmaceutically acceptable salts as active ingredients. Pharmaceutical compns. and antiosteoporotic agents containing I or their salts are also claimed. N-[2-(dimethylaminoethyl]4-(nonyloxy)benzamide hydrochloride (preparation given) at 3  $\mu$ M showed 244% osteoblast growth promoting activity.

IT 222980-28-1P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(preparation of (hetero)aromatic amides as bone formation promoters for treatment of osteoporosis)

RN 222980-28-1 CAPLUS

CN Ethanaminium, N,N,N-trimethyl-2-[[6-[(5-phenylpentyl)oxy]-3-pyridinyl]carbonyl]amino]-, iodide (9CI) (CA INDEX NAME)

● I<sup>-</sup>

L22 ANSWER 8 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN

AN 1995:994323 CAPLUS &lt;&gt;LOGINID::20080523&gt;&gt;

DN 124:31986

OREF 124:6095a,6098a

TI Cationically bridged tetrakisazo dyes, their preparation and use

IN Moser, Helmut Anton

PA Sandoz Ltd., Switz.

SO Brit. UK Pat. Appl., 31 pp.

CODEN: BAXXDU

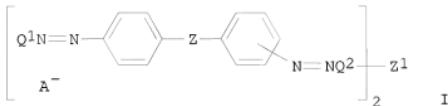
DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI GB 2285809	A	19950726	GB 1995-496	19950111
GB 2285809	B	19980624		
DE 19500203	A1	19950720	DE 1995-19500203	19950105
FR 2715159	A1	19950721	FR 1995-232	19950109
ES 2111449	A1	19980301	ES 1995-37	19950111
ES 2111449	B1	19990701		
CH 688552	A5	19971114	CH 1995-91	19950112
US 5545724	A	19960813	US 1995-540528	19951010
PRAI DE 1994-4400855	A	19940114		
US 1995-371727	B1	19950112		

OS MARPAT 124:31986  
GI



AB The cationically bridged tetrakisazo compds. correspond to formula I, in which Al is an anion, preferably of a carboxylic acid, Q1 is a coupling agent residue, Q2 is the residue of a cationic pyridone coupler or a pyridone coupler carrying a tertiary amino group, Z is a bridging group, and Z1 is hydroxyalkylene, alkylene, or xylylene. Each disazo chromophore contains  $\geq 2$  water-solubilizing groups and coupling must be asym. The compds. and their preps. are used for dyeing and printing OH group-containing or N-containing organic substrates by known methods.

### Preferred

substrates are textile materials which consist of or contain cellulose, especially cotton or bast fibers, leather, and paper or pulp products. Thus, 4-H2NC6H4CONHC6H4NH2-4 was tetrazotized and coupled consecutively with N-(1,2-dihydro-6-hydroxy-4-methyl-2-oxo-3-pyridyl)-3-methylpyridinium chloride at pH 0.5-2 and 1-[3-(dimethylamino)propyl]-6-hydroxy-4-methyl-2-pyridinone to give a disazo compound, which was coupled 2:1 by quaternization with (ClCH2)2CHOH to give a product which dyes paper yellow.

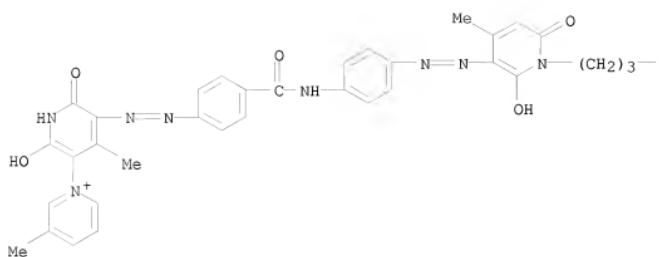
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171848-57-0P 171848-59-2P 171848-60-5P  
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RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(yellow; cationically bridged tetrakisazo dyes for cellulosic

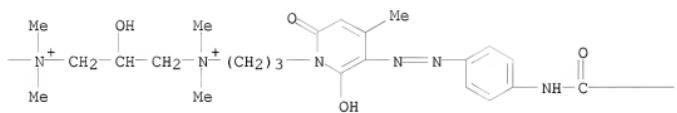
substrates and 1  
RN 171848-44-5 CAPLUS

CN 1,3'-Bipyridinium, 5',5''-[(2-hydroxy-1,3-propanediyl)bis[(dimethylimino)-3,1-propanediyl(2-hydroxy-4-methyl-6-oxo-1,3(6H)-pyridinediyl)azo-4,1-phenyleneiminocarbonyl-4,1-phenyleneazao]]bis[1',2'-dihydro-6'-hydroxy-3,4'-dimethyl-2'-oxo-, tetrahydroxide (9CI) (CA INDEX NAME)

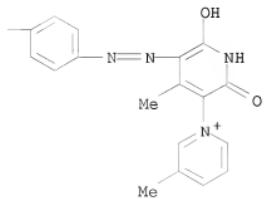
PAGE 1-A

● 4 OH<sup>-</sup>

PAGE 1-B



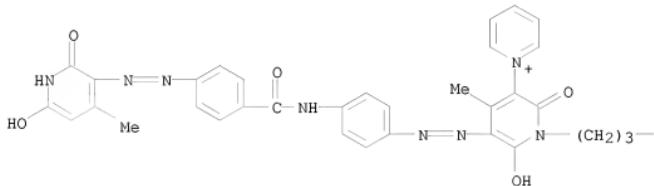
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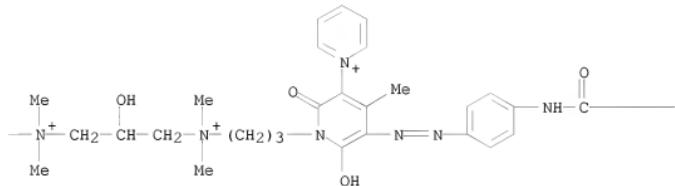
RN 171848-45-6 CAPLUS

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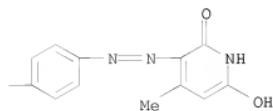
PAGE 1-A

● 4 OH<sup>-</sup>

PAGE 1-B



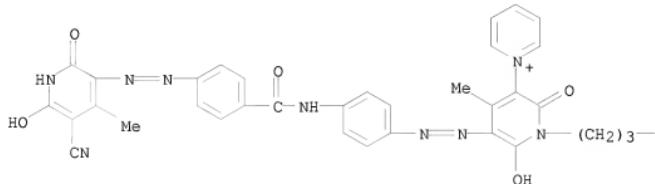
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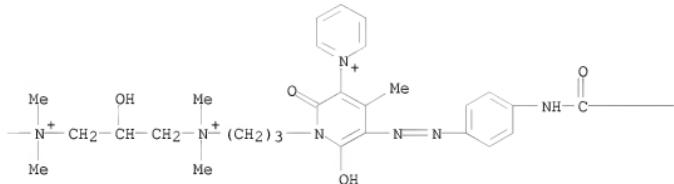
RN 171848-46-7 CAPLUS

CN 1,3'-Bipyridinium, 5',5'''-[(2-hydroxy-1,3-propanediyl)bis[(dimethyliminio)-3,1-propanediyl]bis[5'-[14-[[4-[(5-cyano-1,2-dihydro-6-hydroxy-4-methyl-2-oxo-3-pyridinyl)azo]benzoyl]amino]phenyl]azol]-6'-hydroxy-4'-methyl-2'-oxo-, tetrahydroxide (9CI) (CA INDEX NAME)

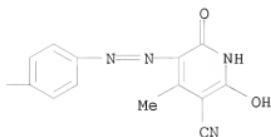
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● 4 OH<sup>-</sup>

PAGE 1-B



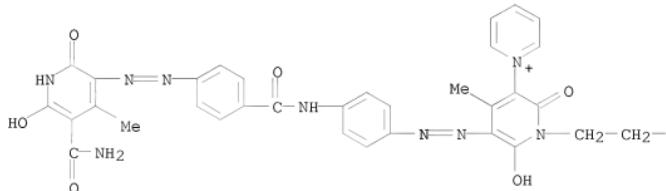
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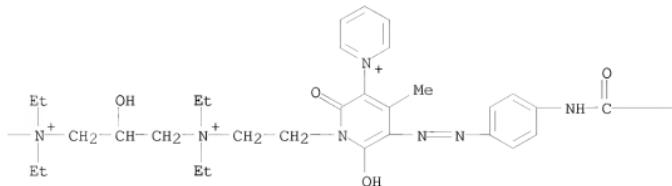
RN 171848-47-8 CAPLUS

CN 1,3'-Bipyridinium, 5',5'''-[(2-hydroxy-1,3-propanediyl)bis[(diethylimino)-2,1-ethanediyl]]bis[5'-[[4-[(4-[(5-(aminocarbonyl)-1,2-dihydro-6-hydroxy-4-methyl-2-oxo-3-pyridinyl)azo]benzoyl]amino]phenyl]azo]-6'-hydroxy-4'-methyl-2'-oxo-, tetrahydroxide (9CI) (CA INDEX NAME)

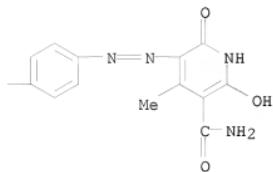
PAGE 1-A

● 4 OH<sup>-</sup>

PAGE 1-B



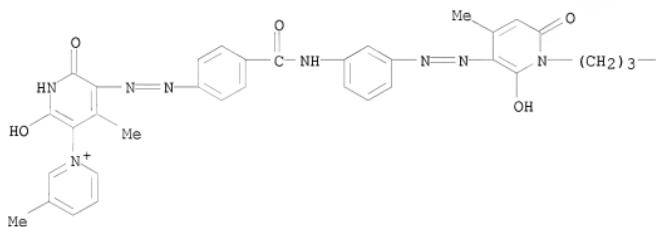
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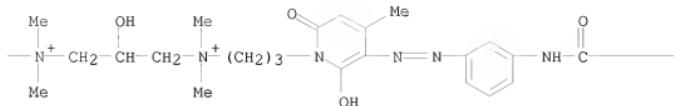
RN 171848-52-5 CAPLUS

CN 1,3'-Bipyridinium, 5',5''-[(2-hydroxy-1,3-propanediyl)bis[(dimethylimino)-3,1-propanediyl](2-hydroxy-4-methyl-6-oxo-1,3(6H)-pyridinediyl)azo-3,1-phenyleneiminocarbonyl-4,1-phenyleneazo]bis[1',2'-dihydro-6'-hydroxy-3,4'-dimethyl-2'-oxo-, tetrahydroxide (9CI) (CA INDEX NAME)

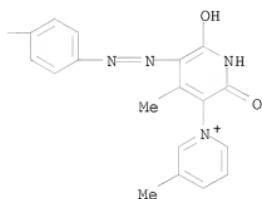
PAGE 1-A

● 4 OH<sup>-</sup>

PAGE 1-B



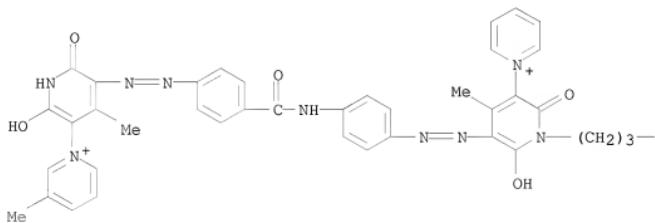
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RN 171848-53-6 CAPLUS

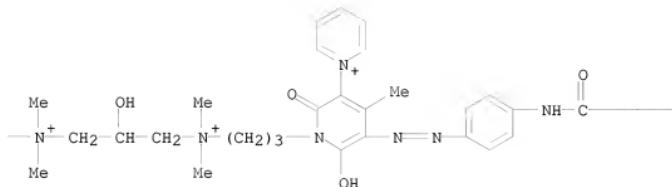
CN 1,3'-Bipyridinium, 1',1''-[(2-hydroxy-1,3-propanediyl)bis[(dimethylimino)-3,1-propanediyl]bis[5'-[[4-[(1',2'-dihydro-6'-hydroxy-4'-methyl-2'-oxo[1,3'-bipyridinium]-5'-yl)azo]benzoyl]amino]phenyl]azono]-1',2'-dihydro-6'-hydroxy-4'-methyl-2'-oxo-, hexahydroxide (9CI) (CA INDEX NAME)

PAGE 1-A

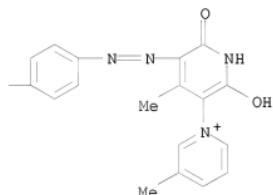


● 6 OH-

PAGE 1-B



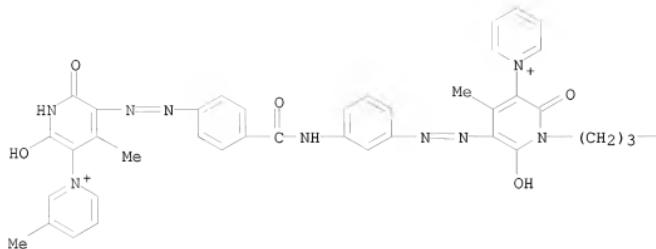
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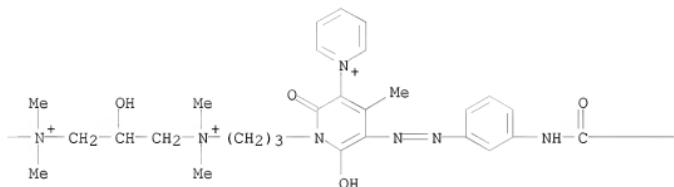
RN 171848-54-7 CAPLUS

CN 1,3'-Bipyridinium, 1',1''''-[(2-hydroxy-1,3-propanediyl)bis[(dimethylimino)-3,1-propanediyl]bis[5'-[(3-[(4-[(1',2'-dihydro-6'-hydroxy-3,4'-dimethyl-2'-oxo[1,3'-bipyridinium]-5'-yl)azo]benzoyl)amino]phenyl)azo]-1',2'-dihydro-6'-hydroxy-4'-methyl-2'-oxo-, hexahydroxide (9CI) (CA INDEX NAME)

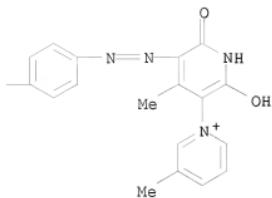
PAGE 1-A

● 6 OH<sup>-</sup>

PAGE 1-B



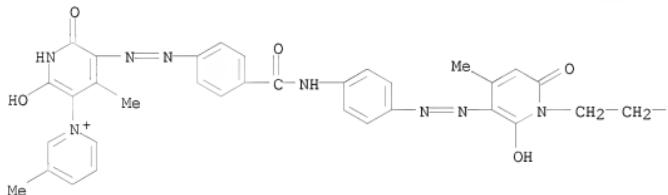
PAGE 1-C



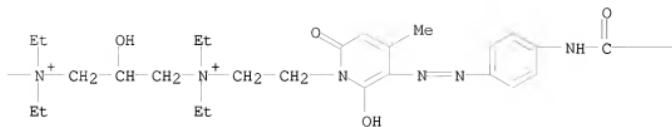
RN 171848-55-8 CAPLUS

CN 1,3'-Bipyridinium, 5',5'''-[(2-hydroxy-1,3-propanediyl)bis[(diethyliminio)-2,1-ethanediyl](2-hydroxy-4-methyl-6-oxo-1,3(6H)-pyridinediyl)azo-4,1-phenyleneiminocarbonyl-4,1-phenyleneazo]bis[1',2'-dihydro-6'-hydroxy-3,4'-dimethyl-2'-oxo-, tetrahydroxide (9CI) (CA INDEX NAME)

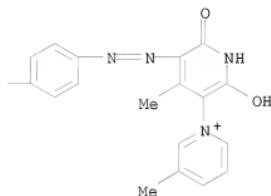
PAGE 1-A

● 4 OH<sup>-</sup>

PAGE 1-B

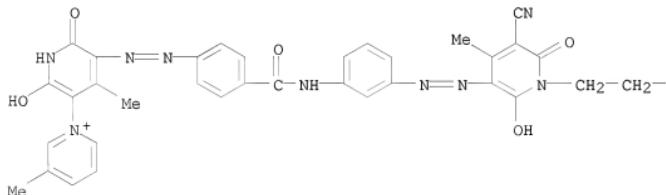


PAGE 1-C

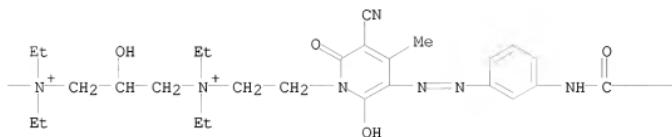


RN 171848-56-9 CAPLUS  
 CN 1,3'-Bipyridinium, 5',5'''-[(2-hydroxy-1,3-propanediyl)bis[(diethyliminio)-2,1-ethanediyl(5-cyano-2-hydroxy-4-methyl-6-oxo-1,3(2H)-pyridinediyl)azo-3,1-phenyleneiminocarbonyl-4,1-phenyleneazo]]bis[1',2'-dihydro-6'-hydroxy-3,4'-dimethyl-2'-oxo-, tetrahydroxide (9CI) (CA INDEX NAME)

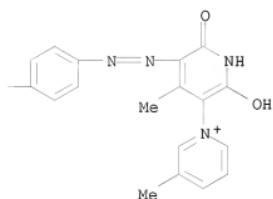
PAGE 1-A

● 4 OH<sup>-</sup>

PAGE 1-B



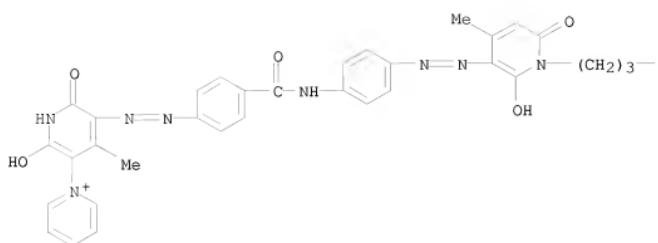
PAGE 1-C



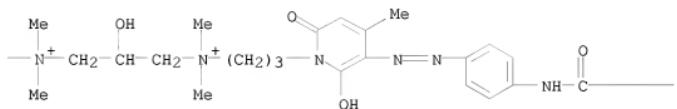
RN 171848-57-0 CAPLUS

CN 1,3'-Bipyridinium, 5'',5'''-[(2-hydroxy-1,3-propanediyl)bis[(dimethyliminio)-3,1-propanediyl(2-hydroxy-4-methyl-6-oxo-1,3(2H)-pyridinediyl)azo-4,1-phenyleneiminocarbonyl-4,1-phenyleneazo]]bis[1',2'-dihydro-6'-hydroxy-4'-methyl-2'-oxo-, tetrahydroxide (9CI) (CA INDEX NAME)

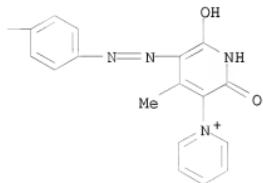
PAGE 1-A

● 4 OH<sup>-</sup>

PAGE 1-B



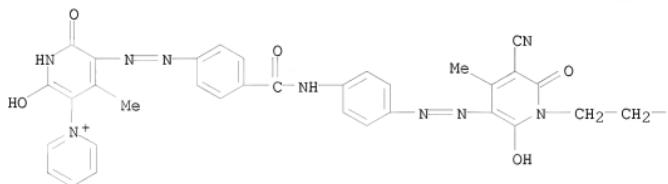
PAGE 1-C



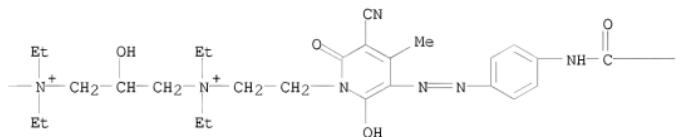
RN 171848-59-2 CAPLUS

CN 1,3'-Bipyridinium, 5',5'''-[(2-hydroxy-1,3-propanediyl)bis[(diethyliminio)-2,1-ethanediyl(5-cyano-2-hydroxy-4-methyl-6-oxo-1,3(2H)-pyridinediyl)azo-4,1-phenyleneiminocarbonyl-4,1-phenyleneazo]]bis[1',2'-dihydro-6'-hydroxy-4'-methyl-2'-oxo-, tetrahydroxide (9CI) (CA INDEX NAME)

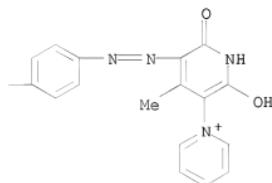
PAGE 1-A

● 4 OH<sup>-</sup>

PAGE 1-B



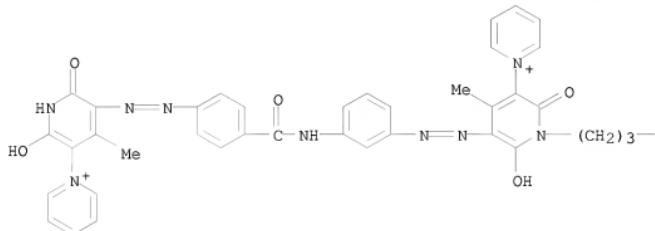
PAGE 1-C



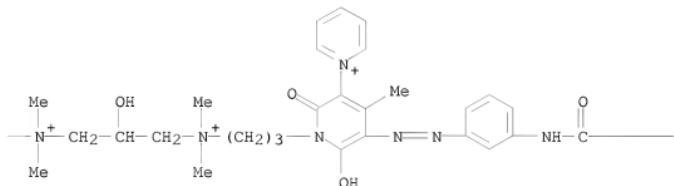
RN 171848-60-5 CAPLUS

CN 1,3'-Bipyridinium, 1,1''-[(2-hydroxy-1,3-propanediyl)bis[(dimethylimino)-3,1-propanediyl]]bis[5'-[3-[4-[(1',2'-dihydro-6'-hydroxy-4'-methyl-2'-oxo[1,3'-bipyridinium]-5'-yl)azo]benzoyl]amino]phenyl]azo]-1',2'-dihydro-6'-hydroxy-4'-methyl-2'-oxo-, hexahydroxide (9CI) (CA INDEX NAME)

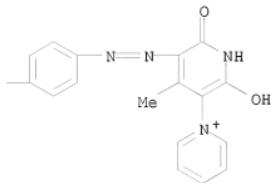
PAGE 1-A

● 6 OH<sup>-</sup>

PAGE 1-B



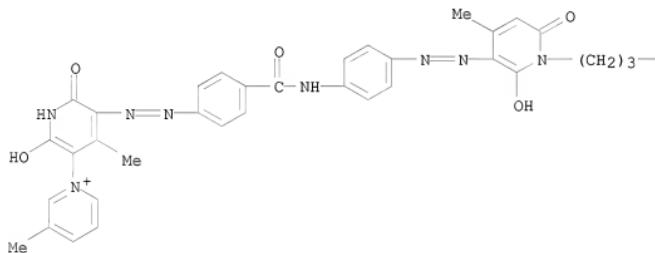
PAGE 1-C



RN 171849-01-7 CAPLUS

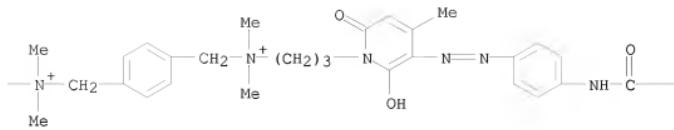
CN 1,3'-Bipyridinium, 5',5''-[1,4-phenylenebis[methylene(dimethyliminio)-3,1-propanediyl(2-hydroxy-4-methyl-6-oxo-1,3(6H)-pyridinediyl)azo-4,1-phenyleneiminocarbonyl-4,1-phenyleneazo]bis[1',2'-dihydro-6'-hydroxy-3,4'-dimethyl-, tetrahydroxide (9CI) (CA INDEX NAME)

PAGE 1-A

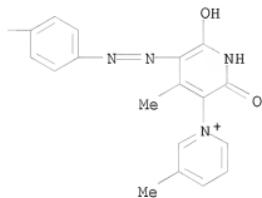


● 4 OH-

PAGE 1-B



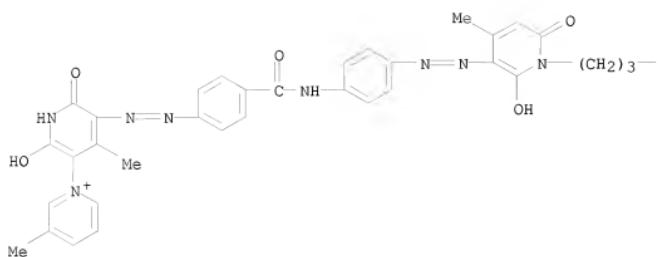
PAGE 1-C



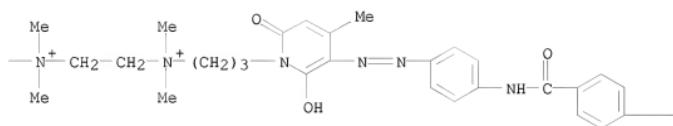
RN 171849-02-8 CAPLUS

CN 1,3'-Bipyridinium, 5',5''-[1,2-ethanediylbis[(dimethyliminio)-3,1-propanediy1(2-hydroxy-4-methyl-6-oxo-1,3(6H)-pyridinediyl)azo-4,1-phenyleneiminocarbonyl-4,1-phenyleneazo]]bis[1',2'-dihydro-6'-hydroxy-3,4'-dimethyl-, tetrahydroxide (9CI) (CA INDEX NAME)

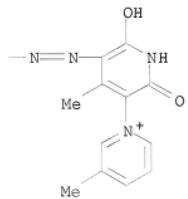
PAGE 1-A

● 4 OH<sup>-</sup>

PAGE 1-B



PAGE 1-C



RN 171849-04-0 CAPLUS

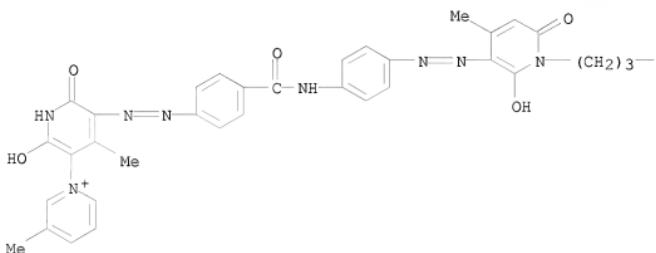
CN 1,3'-Bipyridinium, 5',5'''-[(2-hydroxy-1,3-propanediyl)bis[(dimethyliminio)-3,1-propanediyl(2-hydroxy-4-methyl-6-oxo-1,3(6H)-pyridinediyl)azo-4,1-phenyleneiminocarbonyl-4,1-phenyleneazo]bis[1',2'-dihydro-6'-hydroxy-3,4'-dimethyl-, tetraacetate (salt) (9CI) (CA INDEX NAME)

CM 1

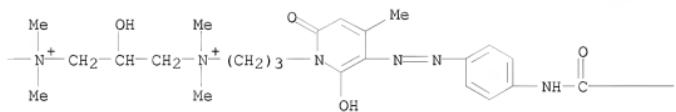
CRN 171849-03-9

CMF C75 H82 N18 O11

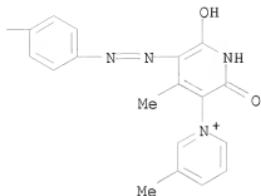
PAGE 1-A



PAGE 1-B



PAGE 1-C



CM 2

CRN 71-50-1  
CMF C2 H3 O2

L22 ANSWER 9 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN  
 AN 1990:17758 CAPLUS <>LOGINID::20080523>>  
 DN 112:17758  
 OREF 112:3065a,3068a  
 TI Preparation of herbicidal aryloxypropionates  
 IN Bartha, Ferenc; Galamb, Vilmos; Repasi Veres, Agota; Timar, Tibor; Tompa, Jozsef; Fodor, Istvan; Zsupan, Kalman  
 PA Alkaloida Vegyeszeti Gyar, Hung.  
 SO Hung. Teljes, 40 pp.  
 CODEN: HUXXBU  
 DT Patent  
 LA Hungarian  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI HU 47525	A2	19890328	HU 1987-2997	19870702
PRAI HU 1987-2997		19870702		
OS MARPAT 112:17758				
AB The aryloxypropionates ArOCHMeCOR [Ar = aryl; R = OR1, NR2R3; R1 = alkyl, alkenyl, alkynyl (CH2CH2)nNR4R5, (CH2CH2)nH+R4R5R6Y-, (CH2CH2)nOR7; R2 = H; R3 = alkyl, cycloalkyl, aryl, etc.; R2R3 = alkylene; R4,R5,R7 = alkyl; R6 = H, alkyl; n = 1-4; Y = anion] are prepared as optical isomers or racemic compds. by reacting the esters ArOCHMeCO2Me with RmA (R = OH, NH2, NH-; m = 1, 2). The aryloxypropionates are herbicides. A mixture of Me				

2-(2,4-dichlorophenoxy)propionate, furfurylamine and NH4Cl was stirred for 5 h at 80°, to give 2-(2,4-dichlorophenoxy)propionic acid furfurylamide (I). Postemergence 5 kg I/ha controlled Ambrosia elatior, Avena fatua, Echinoclocha crus-galli, and other weeds. An emulsion concentrate comprised 20% N-phosphonomethylglycine, 40 g N,N-dimethylaminoethyl 2-[4-(5-trifluoromethylpyrid-2-yloxy)phenoxy]propionate, 50 mL water, 50 mL paraffin oil and 10 g  $\alpha$ , $\omega$ -polyethylene oxide diol.

IT 124371-94-4P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses (preparation of, as herbicide)

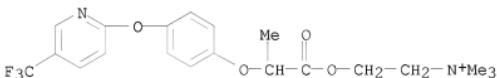
RN 124371-94-4 CAPLUS

CN Ethanaminium, N,N,N-trimethyl-2-[1-oxo-2-[4-[(5-(trifluoromethyl)-2-pyridinyl)oxy]phenoxy]propoxy]-, methanesulfonate (9CI) (CA INDEX NAME)

CM 1

CRN 124371-93-3

CMF C20 H24 F3 N2 O4



CM 2

CRN 16053-58-0

CMF C H3 O3 S



L22 ANSWER 10 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN  
 AN 1989:635621 CAPLUS <>LOGINID::20080523>>

DN 111:235621

OREF 111:39125a, 39128a

TI Aggregate structure and ligand location strongly influence copper(II) binding ability of cationic metallosurfactants

AU Scrimin, Paolo; Tecilla, Paolo; Tonellato, Umberto; Vendrame, Tiziano

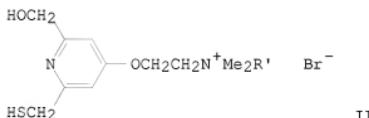
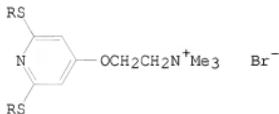
CS Dip. Chim. Org., Univ. Padova, Padua, 35131, Italy

SO Journal of Organic Chemistry (1989), 54(25), 5988-91

CODEN: JOCEAH; ISSN: 0022-3263

DT Journal

LA English  
GI



AB Ligand surfactants I (R = octyl, lauryl, palmityl) and non-surfactant model I (R = Me) were synthesized. Their binding consts. and those of II [R' = hexadecyl or 2,3-bis(palmitoyl)propyl] with Cu(II) ions strongly depended on the structure of the aggregate (micelles or vesicles) and the location of the ligand subunit (micelles or vesicles) and the location of the ligand subunit (inside or outside the membrane). Micelles were not sensitive to the position of the coordinating moiety, while vesicles show no detectable binding of Cu(II) ions when the coordination site was inside the vesicular membrane [as in I [R = lauryl, palmityl]]. The observed effects were attributed to the high order of the hydrocarbon chains in the vesicles, which precluded the binding site modification required for the complexation process, as well as to the very high hydrophobicity of the bilayer.

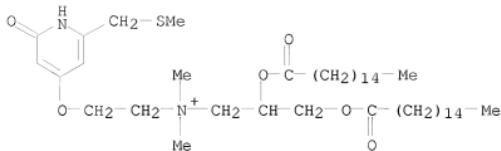
IT 122899-70-1

RL: USES (Uses)

(copper-binding properties of, micellar and vesicular structure effect on)

RN 122899-70-1 CAPLUS

CN 1-Propanaminium, N-[2-[(1,2-dihydro-6-[(methylthio)methyl]-2-oxo-4-pyridinyl)oxy]ethyl]-N,N-dimethyl-2,3-bis[(1-oxohexadecyl)oxy]-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

L22 ANSWER 11 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN  
 AN 1984:53193 CAPLUS <>LOGINID::20080523>>

DN 100:53193

OREF 100:8137a,8140a

TI Basic and/or cationic pyridinone-containing dis- or polyazo dyes

IN Greve, Manfred; Moser, Helmut; Pedrazzi, Reinhard; Wald, Roland

PA Sandoz-Patent-G.m.b.H., Fed. Rep. Ger.

SO Ger. Offen., 36 pp.

CODEN: GWXXBX

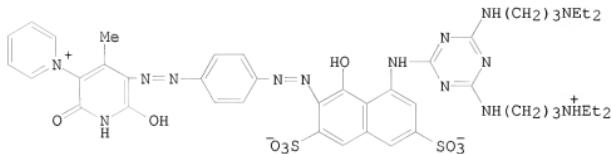
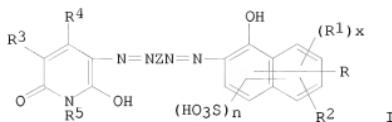
DT Patent

LA German

FAN.CNT 5

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 3213826	A1	19831027	DE 1982-3213826	19820415
	EP 92520	A2	19831026	EP 1983-810152	19830413
	EP 92520	A3	19831130		
	EP 92520	B1	19861112		
	R: AT, BE, CH, DE, FR, GB, IT, LI, NL, SE AT 23551 CA 1211751 JP 58213052 JP 03056595 BR 8301953 ZA 8302675 US 4673735 US 4780106	T	19861115	AT 1983-810152 CA 1983-425900 JP 1983-65743 B 19910828 A 19831220 A 19841128 A 19870616 A 19881025	19830413 19830414 19830415 19830415 19830415 19830415 19840409 19870610
PRAI	DE 1982-3213826 DE 1983-3302614 DE 1983-3302950 EP 1983-810152 US 1983-485212 DE 1983-3316915 US 1984-598236	A	19820415 A A A A2 A A3	19830127 19830129 19830413 19830415 19830509 19840409	

GI



AB Title dyes of general structure I are prepared, where Z = tetrazo component residue, optionally containing a bridging moiety; R = H or benzoylamino or (triazinylamino)benzoylamino containing a diamine or quaternized diamine residue as a substituent; R<sub>1</sub> = azo or disazo substituent; x = 0 or 1 (R = H when x = 1); R<sub>2</sub> = H, OH, NH<sub>2</sub>, etc.; n = 0, 1 or 2 (but at least one less than the total number of basic and/or cation groups); R<sub>3</sub> = H, halogen, carbamoyl, etc.; R<sub>4</sub> = H, OH, alkyl, Ph, etc.; and R<sub>5</sub> = H, hydroxyalkyl, Ph, cycloalkyl, etc. I and their metal complexes are fast dyes for cellulosic substrates (especially paper) and leather. Thus, diazotization of 5-[(4-aminophenyl)azo]-6-hydroxy-4-methyl-3-pyridinio-2-pyridone chloride (II) [88341-91-7] and coupling with 1-[4,6-bis([3-(diethylamino)propyl]amino)-s-triazin-2-yl]amino]-8-hydroxy-3,6-naphthalenedisulfonic acid (III) [88341-90-6] (synthesis of II and III described) gave IV [88341-85-9], a blue dye exhibiting high wetfastness on paper when applied as an acid addition salt. Numerous other I are reported, and dyeing examples are given.

IT 88470-75-1 88470-78-4

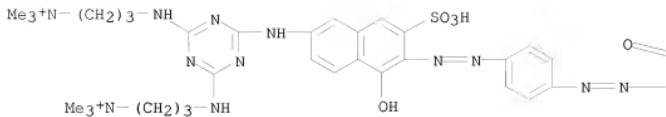
RL: USES (Uses)

(dye, for paper)

RN 88470-75-1 CAPLUS

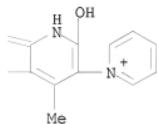
CN 1,3'-Bipyridinium, 5'-[[4-[[6-[[4,6-bis[[3-(trimethylammonio)propyl]amino]-1,3,5-triazin-2-yl]amino]-1-hydroxy-3-sulfo-2-naphthalenyl]azo]phenyl]azo]-1',2'-dihydro-6'-hydroxy-4'-methyl-2'-oxo-, trichloride (9CI) (CA INDEX NAME)

PAGE 1-A

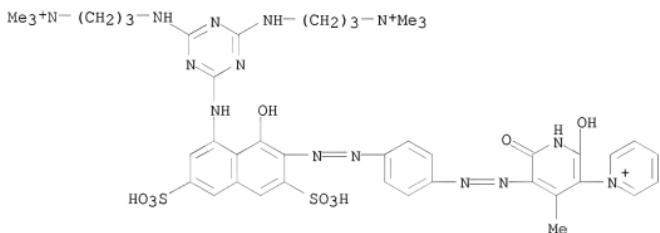


● 3 C1-

PAGE 1-B



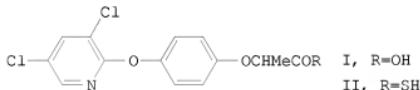
RN 88470-78-4 CAPLUS  
 CN 1,3'-Bipyridinium, 5'-[[4-[1-[4,6-bis[[3-(trimethylammonio)propyl]amino]-1,3,5-triazin-2-yl]amino]-1-hydroxy-3,6-disulfo-2-naphthalenyl]azo[phenyl]azo]-1',2'-dihydro-6'-hydroxy-4'-methyl-2'-oxo-, trichloride (9CI) (CA INDEX NAME)



•<sub>3</sub> Cl<sup>-</sup>

L22 ANSWER 12 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN  
 AN 1983:156408 CAPLUS <>LOGINID::20080523>>  
 DN 98:156408  
 OREF 98:23669a,23672a  
 TI Synergistic agent for the selective control of weeds, especially in crops  
 IN Quadranti, Marco; Maag, Kurt  
 PA Ciba-Geigy A.-G. , Switz.  
 SO Eur. Pat. Appl., 28 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA German  
 FAN.CNT 1  

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 69705	A1	19830112	EP 1982-810283	19820702
EP 69705	B1	19850529		
R: AT, BE, CH, DE, FR, GB, IT, LI, NL				
AT 13478	T	19850615	AT 1982-810283	19820702
ZA 8204820	A	19830427	ZA 1982-4820	19820707
JP 58015903	A	19830129	JP 1982-119127	19820708
PRAI CH 1981-4485	A	19810708		
EP 1982-810283	A	19820702		
OS MARPAT 98:156408				
GI				



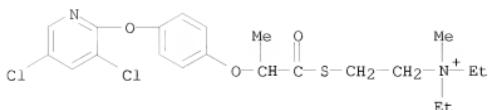
AB Synergistic herbicides for postemergence weed control in cereals were prepared by mixing 3-(4-isopropylphenyl)-1,1-dimethylurea [34123-59-6] or 3-(3-chloro-4-methylphenyl)-1,1-dimethylurea [15545-48-9] with 4-(3',5'-dichloropyridyl-2'-oxy)- $\alpha$ -phenoxypropionic acid (I) [60074-25-1] or its Me, Et, Pr, or Bu ester derivs. or with 4-(3',5'-dichloropyridyl-2'-oxy)- $\alpha$ -phenoxythiopropionic acid (II) [72132-05-9] or its ester derivs. at a 1:1-20:1, preferably 4:1-10:1, ratio and used preferably at 0.25-1.25 kg total active ingredient/ha. The herbicide formulations are described.

IT 72280-31-0

RL: BIOL (Biological study)  
 (synergist, for dimethylurea herbicides)

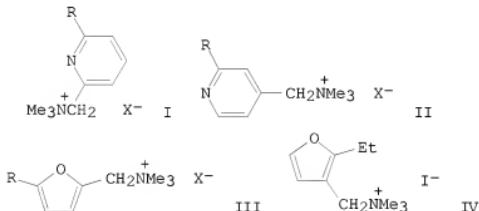
RN 72280-31-0 CAPLUS

CN Ethanaminium, 2-[(2-[4-[(3,5-dichloro-2-pyridinyl)oxylphenoxy]-1-oxopropyl]thio)-N,N-diethyl-N-methyl-, iodide (9CI) (CA INDEX NAME)



● I-

L22 ANSWER 13 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN  
 AN 1982:520110 CAPLUS <<LOGINID::20080523>>  
 DN 97:120110  
 OREF 97:19777a,19780a  
 TI QSAR in a series of muscarinic agents. Note IV. New pyridine and furan derivatives  
 AU Pratesi, P.; Villa, L.; Ferri, V.; De Micheli, C.; Grana, E.; Barbone, M.  
 G. Santagostino; Silipo, C.; Vittoria, A.  
 CS Ist. Chim. Farm., Univ. Milano, Milan, Italy  
 SO Farmaco, Edizione Scientifica (1982), 37(6), 398-410  
 CODEN: RPSSAX; ISSN: 0430-0920  
 DT Journal  
 LA English  
 OS CASREACT 97:120110  
 GI



AB Five picolytrimethylammonium salts I (R = Et, NO<sub>2</sub>, or OMe) and II (R = Br or Cl), and 5 furfuryltrimethylammonium salts III (R = CH<sub>2</sub>Cl, CH<sub>2</sub>OH, NO<sub>2</sub>, or CH<sub>2</sub>CH<sub>2</sub>) and IV [83004-04-0] were prepared and their interaction with muscarinic receptors was studied in order to characterize the muscarinic receptor. Pharmacodynamic parameters ( $\alpha$ , pD<sub>2</sub>, pA<sub>2</sub>) and the hydrophobic constant were used to clarify the ligand-receptor interactions and to elucidate structure-activity relations. The affinities of these compds. were expressed as pD<sub>2</sub> for mimetics and as pA<sub>2</sub> for partial agonists or competitive antagonists. The cumulative dose-response curve of all

agonists tested showed a slope similar to that of furmethide except for I iodide (R = Et) [83004-17-5]. Apparently, the biol. data for these new congeners was accurately predicted based on a previously published correlation equation.

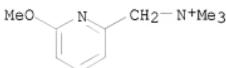
IT 83004-12-0P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of and muscarinic receptor binding by, QSAR in relation to)

RN 83004-12-0 CAPLUS

CN 2-Pyridinemethanaminium, 6-methoxy-N,N,N-trimethyl-, iodide (9CI) (CA INDEX NAME)



● I<sup>-</sup>

L22 ANSWER 14 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN  
AN 1981:191591 CAPLUS <>LOGINID::20080523>>

DN 94:191591

OREF 94:31333a,31336a

TI Convenient dealkylation of quaternary ammonium salts

AU Newkome, George R.; Majestic, Veronica K.; Sauer, Joe D.

CS Dep. Chem., Louisiana State Univ., Baton Rouge, LA, 70803, USA

SO Organic Preparations and Procedures International (1980), 12(6), 345-50

CODEN: OPPIAK; ISSN: 0030-4948

DT Journal

LA English

OS CASREACT 94:191591

AB Quaternary ammonium halides were dealkylated with Li(EtCHMe)3BH to give essentially quant. yields of the corresponding amines. Demethylation is favored over deethylation. Thus, dealkylation of PhN+Et<sub>2</sub>Me I<sup>-</sup> at 25° gave 82% PhN<sub>2</sub>Et and 7% PhNMeEt.

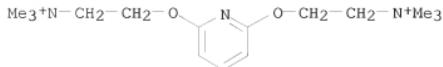
IT 29449-87-4 29460-15-9

RL: RCT (Reactant); RACT (Reactant or reagent)

(demethylation of, reagent for)

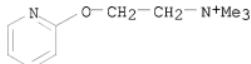
RN 29449-87-4 CAPLUS

CN Ethanaminium, 2,2'-[2,6-pyridinediylbis(oxy)]bis[N,N,N-trimethyl-, diiodide (9CI) (CA INDEX NAME)



● 2 I<sup>-</sup>

RN 29460-15-9 CAPLUS  
 CN Ethanaminium, N,N,N-trimethyl-2-(2-pyridinylloxy)-, iodide (9CI) (CA INDEX  
 NAME)



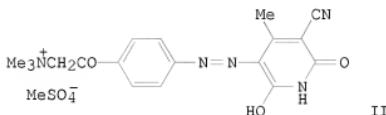
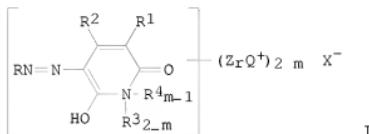
● I<sup>-</sup>

L22 ANSWER 15 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN  
 AN 1980:587740 CAPLUS <>LOGINID::20080523>>  
 DN 93:187740  
 OREF 93:29943a,29946a  
 TI Cationic 5-arylaizo-6-hydroxypyridone-2 dyes  
 IN Entschel, Roland; Mueller, Curt; Steinemann, Willy  
 PA Sandoz A.-G., Switz.  
 SO U.S., 34 pp. Cont.-in-part of U.S. Ser. No. 824,298, abandoned.  
 CODEN: USXXAM  
 DT Patent  
 LA English  
 FAN.CNT 16

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4213898	A	19800722	US 1973-400527	19730925
	CH 503781	A	19710228	CH 1968-503781	19680515
	CH 506592	A	19710430	CH 1968-506592	19680813
	BR 6908780	D0	19730109	BR 1969-208780	19690514
	FR 2008615	A5	19700123	FR 1969-15876	19690516
	FR 2008615	B1	19731130		
	ES 377393	A2	19720916	ES 1970-377393	19700311
	US 4032532	A	19770628	US 1973-337167	19730301
PRAI	CH 1968-7218	A	19680515		
	CH 1968-11581	A	19680802		
	CH 1968-12136	A	19680813		
	US 1969-824298	A2	19690513		

US 1969-810014      A      19690324  
 US 1969-824297      A2      19690513

GI



AB Water-soluble dyes (I) giving fast shades on acrylic fibers are prepared, where R = aromatic carbocyclic or heterocyclic group, R1 = H or CN, R2 = optionally substituted alkyl, aryl, or heterocyclic, R3 = H or optionally substituted hydrocarbyl, heterocyclic, or amino, R4 = quaternized N-containing heterocyclic, m = 1 or 2, Z = divalent bridging group, r = 0 or 1, Q+ = optionally substituted ammonium, hydrazinium or quaternized N-containing heterocyclic, and X- = anion. Thus, 4-amino- $\omega$ - (dimethylamino)acetophenone [28799-80-6] was diazotized and coupled with 5-cyano-2,6-dihydroxy-4-methylpyridine [5444-02-0], and the resulting azo compound [37710-82-0] was treated with Me2SO4 to give II [30506-77-5], a greenish yellow dye for acrylic fibers. Numerous other I were similarly prepared

IT 30506-77-5P

RL: PREP (Preparation)

(manufacture of, as dye for acrylic fibers)

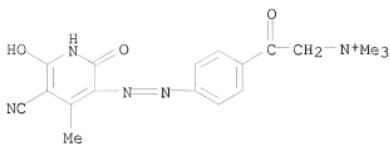
RN 30506-77-5 CAPLUS

CN Benzenesethanaminium, 4-[(5-cyano-1,2-dihydro-6-hydroxy-4-methyl-2-oxo-3-pyridinyl)azo]-N,N,N-trimethyl- $\beta$ -oxo-, methyl sulfate (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 47488-32-4

CMF C18 H20 N5 O3



CM 2

CRN 21228-90-0  
CMF C H3 O4 SMe—O—SO<sub>3</sub><sup>—</sup>

L22 ANSWER 16 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN  
 AN 1980:41772 CAPLUS <<LOGINID::20080523>>

DN 92:41772

OREF 92:6969a,6972a

TI Herbicidal pyridyloxyphenoxy-*α*-propionic acid aminoalkyl esters

IN Schurter, Rolf; Rempfier, Hermann; Boehner, Beat

PA Ciba-Geigy A.-G., Switz.

SO Eur. Pat. Appl., 35 pp.

CODEN: EPXXDW

DT Patent

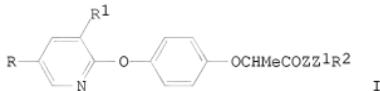
LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 3313	A1	19790808	EP 1979-100127	19790117
	EP 3313	B1	19810107		
	R: BE, CH, DE, FR, GB, IT, NL				
US	4123774	A	19800722	US 1979-5538	19790122
CS	203942	B2	19810331	CS 1979-507	19790123
RO	76447	A1	19810330	RO 1979-96388	19790125
CA	1100965	A1	19810512	CA 1979-320291	19790125
IL	56498	A	19820730	IL 1979-56498	19790125
AU	7943698	A	19790802	AU 1979-43698	19790126
AU	527702	B2	19830317		
BR	7900495	A	19790828	BR 1979-495	19790126
JP	54109982	A	19790829	JP 1979-8653	19790126
JP	02017545	B	19900420		
ZA	7900336	A	19800227	ZA 1979-336	19790126
DD	141075	A5	19800521	DD 1979-210662	19790126
AT	7900601	A	19820915	AT 1979-601	19790126
AT	370587	B	19830411		
HU	24367	A2	19830228	HU 1979-CI1900	19790126
HU	181862	B	19831128		

AT 8200208	A 19850715	AT 1982-208	19820121
AT 379802	B 19860310		
PRAI CH 1978-928	19780127		
AT 1979-601	A 19790126		

GI

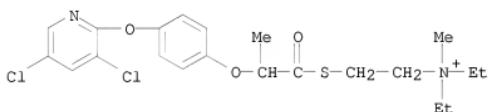


AB The title compds. I [R = halogen, CF<sub>3</sub>; R<sub>1</sub> = H, halogen, CF<sub>3</sub>; R<sub>2</sub> = (substituted) NH<sub>2</sub>, NH<sub>3</sub><sup>+</sup>, or pyridinium; Z = O, S; Z<sub>1</sub> = alkylene, oxaaalkylene] were prepared for use as herbicides (test data tabulated). Thus, II reacted with HOCH<sub>2</sub>CH<sub>2</sub>NMe<sub>2</sub> in CH<sub>2</sub>Cl<sub>2</sub>-Et<sub>3</sub>N to give I (R = R<sub>1</sub> = Cl, Z = O, Z<sub>1</sub> = CH<sub>2</sub>CH<sub>2</sub>, R<sub>2</sub> = Me<sub>2</sub>N).

IT 72280-31-0P  
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)  
 (preparation and herbicidal activity of)

RN 72280-31-0 CAPLUS

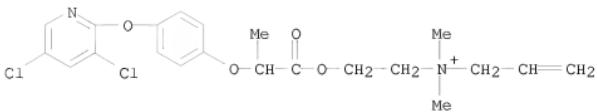
CN Ethanaminium, 2-[2-[4-[(3,5-dichloro-2-pyridinyl)oxy]phenoxy]-1-oxopropyl]thio]-N,N-diethyl-N-methyl-, iodide (9CI) (CA INDEX NAME)

● I<sup>-</sup>

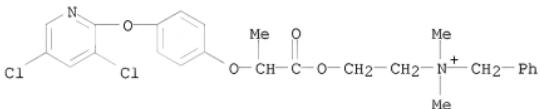
IT 72280-37-6P 72280-38-7P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)

RN 72280-37-6 CAPLUS

CN 2-Propenyl-1-aminium, N-[2-[2-[4-[(3,5-dichloro-2-pyridinyl)oxy]phenoxy]-1-oxopropoxy]ethyl]-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)

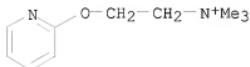
● Cl<sup>-</sup>

RN 72280-38-7 CAPLUS  
 CN Benzenemethanaminium, N-[2-[2-[4-[(3,5-dichloro-2-pyridinyl)oxy]phenoxy]-1-oxopropoxy]ethyl]-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl<sup>-</sup>

L22 ANSWER 17 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN  
 AN 1979:551075 CAPLUS <>LOGINID::20080523>>  
 DN 91:151075  
 OREF 91:24225a,24228a  
 TI A quantitative aspect of charge-transfer phenomenon in the biological activity of hallucinogens, local anesthetics and nicotinic agents  
 AU Gupta, S. P.; Singh, P.  
 CS Dep. Chem., Birla Inst. Technol. Sci., Pilani, 333 031, India  
 SO Proceedings - Indian Academy of Sciences, Section A (1979), 88A(Pt. 1, No. 3), 171-7  
 CODEN: PISAA7; ISSN: 0370-0089  
 DT Journal  
 LA English  
 AB The qual. electronic structure-activity relations suggesting that hallucinogens, local anesthetics, and nicotinic agents exert their biol. effects through the formation of charge-transfer complexes with the receptors were tested statistically. The statistical test supported the suggestion and further suggested that along with the charge-transfer mechanism a secondary binding is also involved in the activity of nicotinic agents.  
 IT 71601-72-4  
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological

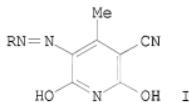
study, unclassified); BIOL (Biological study)  
(nicotinic activity of, structure in relation to)  
RN 71601-72-4 CAPLUS  
CN Ethanaminium, N,N,N-trimethyl-2-(2-pyridinylloxy)- (CA INDEX NAME)



L22 ANSWER 18 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN  
AN 1977:469735 CAPLUS <<LOGINID::20080523>>  
DN 87:69735  
OREF 87:11117a,11120a  
TI 2,6-Dihydroxy-3-cyano-4-methylpyridine-containing azo dyes which contain a functional amino group  
IN Ramanathan, Visvanathan  
PA Ciba-Geigy A.-G., Switz.  
SO U.S., 16 pp.  
CODEN: USXXAM  
DT Patent  
LA English  
FAN.CNT 1

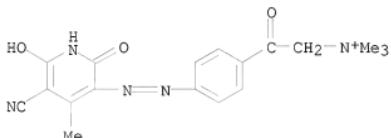
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 3966706	A	19760629	US 1973-395304	19730907
PRAI US 1969-827960	A1	19690526		
US 1971-110240	A1	19710127		

GI



AB Title dyes of general structure I, where R is an aromatic or heterocyclic residue containing an amino group that may be quaternized, give fast yellow or orange dyeings on acrylic fibers. Typical dyes, all prepared by conventional diazo coupling reactions, include I (R = Cl- p-Me3N+CH2COOC6H4) [25826-12-4], I [R = 6-[(dimethylamino)methyl]-2-benzothiazolyl] [25737-76-2], and I [R = 3-[(1-methylpyridinium-3-ylcarbonyl)amino]phenyl] [30205-18-6].  
IT 25826-12-4  
RL: USES (Uses)

(dye, for acrylic fibers, preparation of)  
 RN 25826-12-4 CAPLUS  
 CN Benzeneethanaminium, 4-[(5-cyano-1,2-dihydro-6-hydroxy-4-methyl-2-oxo-3-pyridinyl)azo]-N,N-trimethyl- $\beta$ -oxo-, chloride (9CI) (CA INDEX NAME)



● Cl<sup>-</sup>

L22 ANSWER 19 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN  
 AN 1975:74435 CAPLUS <<LOGINID::20080523>>

DN 82:74435

OREF 82:11911a,11914a

TI Basic azo dyes

IN Entschel, Roland; Mueller, Curt; Steinemann, Willy

PA Sandoz Ltd.

SO Patentschrift (Switz.), 6 pp.

CODEN: SWXXAS

DT Patent

LA German

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI CH 553241	A	19740830	CH 1971-13987	19691017
PRAI CH 1971-13987	A	19691017		

GI For diagram(s), see printed CA Issue.

AB Cationic azo dyes (I, R, R<sub>1</sub> = H, Me; Z = COCH<sub>2</sub>, CONHCH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>; X = Cl, MeSO<sub>4</sub>) and unquaternized derivs. were prepared and dyed acrylic and poly(vinylidene cyanide) fibers fast greenish yellow shades. Thus, 4-H<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>COCH<sub>2</sub>NMe<sub>2</sub> [28799-80-6] was diazotized and coupled with 2,6-dihydroxy-4-methylpyridine [4664-16-8], the azo compound isolated, and methylated with Me<sub>2</sub>SO<sub>4</sub> to give cationic azo dye I(R =R<sub>1</sub> = H, Z = p-COCH<sub>2</sub>, X = MeSO<sub>4</sub>) [53461-12-4]. The other I was similarly prepared

IT 53461-12-4

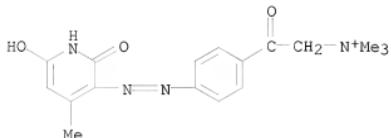
RL: IMF (Industrial manufacture), PREP (Preparation)  
 (preparation of)

RN 53461-12-4 CAPLUS

CN Benzeneethanaminium, 4-[(1,2-dihydro-6-hydroxy-4-methyl-2-oxo-3-pyridinyl)azo]-N,N-trimethyl- $\beta$ -oxo-, methyl sulfate (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 53461-11-3  
 CMF C17 H21 N4 O3



CM 2

CRN 21228-90-0  
 CMF C H3 O4 S

Me-O-SO<sub>3</sub><sup>-</sup>

L22 ANSWER 20 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN  
 AN 1970:530899 CAPLUS <>LOGINID::20080523>>  
 DN 73:130899

OREF 73:21329a,21332a

TI Pesticidal substituted aminothioethoxy pyridines

IN Zielinski, James

PA Esso Research and Engineering Co.

SO U.S., 18 pp.

CODEN: USXXAM

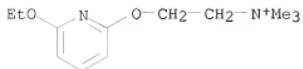
DT Patent

LA English

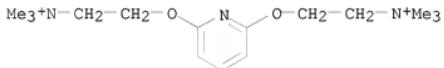
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 3535328	A	19701020	US 1967-664944	19670901
PRAI	US 1967-664944	A	19670901		
AB Mono- and polysubstituted pyridine derivs., useful as pesticides were prepared by 9 different methods. Thus, 2-chloro-6-benzylthiopyridine was prepared by adding NaEt to PhCH <sub>2</sub> SH and refluxing the product with 2,6-dichloropyridine. More than 150 derivs. of substituted pyridine derivs. were prepared					
IT 29449-83-0P 29449-87-4P 29450-03-1P 29450-20-2P 29460-15-9P 29460-43-3P 29476-03-7P					
RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)					
RN	29449-83-0	CAPLUS			
CN	Ammonium, [2-[(6-ethoxy-2-pyridyl)oxy]ethyl]trimethyl-, iodide (8CI) (CA				

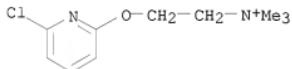
INDEX NAME)

● 1<sup>-</sup>

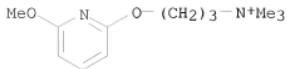
RN 29449-87-4 CAPLUS  
 CN Ethanaminium, 2,2'-[2,6-pyridinediylbis(oxy)]bis[N,N,N-trimethyl-, diiodide (8CI) (CA INDEX NAME)

● 2 I<sup>-</sup>

RN 29450-03-1 CAPLUS  
 CN Ammonium, [2-[(6-chloro-2-pyridyl)oxy]ethyl]trimethyl-, iodide (8CI) (CA INDEX NAME)

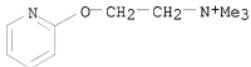
● I<sup>-</sup>

RN 29450-20-2 CAPLUS  
 CN Ammonium, [3-[(6-methoxy-2-pyridyl)oxy]propyl]trimethyl-, iodide (8CI) (CA INDEX NAME)



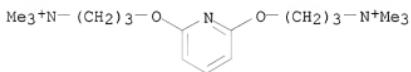
● I<sup>-</sup>

RN 29460-15-9 CAPLUS  
 CN Ethanaminium, N,N,N-trimethyl-2-(2-pyridinyloxy)-, iodide (9CI) (CA INDEX NAME)



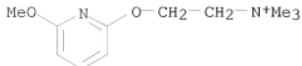
● I<sup>-</sup>

RN 29460-43-3 CAPLUS  
 CN Ammonium, [2,6-pyridinediylbis(oxytrimethylene)]bis(trimethyl-, diiodide (8CI) (CA INDEX NAME)



● 2 I<sup>-</sup>

RN 29476-03-7 CAPLUS  
 CN Ammonium, [2-[(6-methoxy-2-pyridyl)oxy]ethyl]trimethyl-, iodide (8CI) (CA INDEX NAME)



● I-

L22 ANSWER 21 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN  
 AN 1970:510871 CAPLUS <>LOGINID::20080523>>

DN 73:110871

OREF 73:18055a,18058a

TI Azo dyes

IN Ramanathan, Visvanathan

PA CIBA Ltd.

SO Ger. Offen., 55 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 1927213	A	19691204	DE 1969-1927213	19690529
CH 557857	A	19750115	CH 1968-8113	19680531
FR 2014146	A5	19700417	FR 1969-16780	19690522
SU 433691	A3	19740625	SU 1969-1334340	19690528
BE 733834	A	19691201	BE 1969-733834	19690530
NL 6908284	A	19691202	NL 1969-8284	19690530
ES 367877	A1	19710416	ES 1969-367877	19690530
GB 1277090	A	19720607	GB 1969-1277090	19690530

PRAI CH 1968-8113  
 CH 1969-4967 A 19690401

GI For diagram(s), see printed CA Issue.

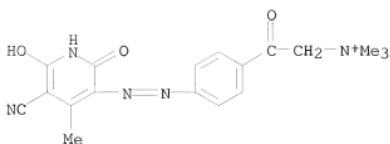
AB The title compds., I and II, yellow to orange dyes for polyacrylonitrile fibers, are prepared by coupling 2,6-dihydroxy-3-cyano-4-methylpyridine (III) with diazotized amines. Thus, III was coupled with diazotized 4-H2NC6H4COCH2NMe3+Cl- to give a yellow dye, also prepared from I (R = p-COCH2Cl) and Me3N. Similarly were prepared II and 2 other I.

IT 25826-12-4P

RL: IMF (Industrial manufacture); PREP (Preparation)  
 (preparation of)

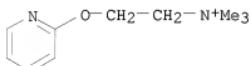
RN 25826-12-4 CAPLUS

CN Benzeneethanaminium, 4-[(5-cyano-1,2-dihydro-6-hydroxy-4-methyl-2-oxo-3-pyridinyl)azol-N,N,N-trimethyl-β-oxo-, chloride (9CI) (CA INDEX NAME)



● Cl<sup>-</sup>

L22 ANSWER 22 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN  
 AN 1969:484689 CAPLUS <>LOGINID::20080523>>  
 DN 71:84689  
 OREF 71:15775a,15778a  
 TI Molecular orbital calculations on a new series of substituted-phenyl choline ethers  
 AU Crow, James; Wassermann, Otmar; Holland, William C.  
 CS Sch. of Med., Univ. of Mississippi, Jackson, MS, USA  
 SO Journal of Medicinal Chemistry (1969), 12(5), 764-6  
 CODEN: JMCMAR; ISSN: 0022-2623  
 DT Journal  
 LA English  
 AB In addition to the onium head, it has been suggested that the electron d. at some other points in the mol. of phenyl and substituted-phenyl choline ethers contribute to the intensity of nicotine-like activity. Simple Hueckel M.O. calcns. revealed that charge ds. in the remainder of the mol. could not be correlated with pharmacologic activity. However, superdelocalizability at ring positions 2 and 6 and the energy of the highest occupied M.O. showed good parallelism with biologic activity. It was suggested that the aromatic ring may interact with the receptor by forming a charge-transfer complex.  
 IT 25077-27-4  
 RL: PRP (Properties)  
 (mol. orbitals of)  
 RN 25077-27-4 CAPLUS  
 CN Ammonium, trimethyl[2-(2-pyridyloxy)ethyl]-, bromide (8CI) (CA INDEX NAME)



● Br<sup>-</sup>

